DESCRIPTION

SOLID-STATE ELECTROLYTIC CAPACITOR AND MANUFACTURING METHOD THEREOF

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TECHNICAL FIELD

The present invention relates to a solid electrolytic capacitor including solid electrolyte made of conductive polymer for use in various electronic devices, and to a method of manufacturing the capacitor.

BACKGROUND ART

According to high-frequency operations of electronic apparatuses, capacitors used in the apparatuses have been required to have excellent impedance characteristics in high frequencies. For this requirement, solid electrolytic capacitors including solid electrolytes made of conductive polymer having large conductivities.

Fig. 22 is a perspective view of conventional solid electrolytic capacitor 1100 disclosed in Japanese Patent Laid-Open Publication No.2000-340463. Fig. 23 is a perspective view of capacitor 1100. Fig. 24 is a perspective view of capacitor element 1030 of capacitor 1100.

As shown in Fig. 24, in capacitor element 1030, a surface of anode body 1031 made of valve metal, such as aluminum foil, is anodized to provide a dielectric oxide layer, and is divided into cathode portion 1034 and anode portion 1033 with resist 1032 having an insulating property. Solid electrolyte layer 1035 is formed on a surface of cathode portion 1034. Cathode layer 1036 made of carbon and silver paste is formed on solid electrolyte layer 1035.

Anode portion 1033 of capacitor element 1030 is placed on a connecting